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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listing of claims in the application.

LISTING OF CLAIMS:

Claims 1-163 (Canceled).

164. (Previously Presented) A fabricating method comprising the steps of:

processing semiconductor wafers by a plurality of processing apparatuses each including at least one processing chamber and an interface having transporting means for transporting a semiconductor wafer to be processed into said processing chamber and for sending out a processed semiconductor wafer; and

transporting semiconductor wafers from one of the processing apparatuses to another by an inter-apparatus transporter;

wherein, in each of said plurality of processing apparatuses, semiconductor wafers are set at said interface by said inter-apparatus transporter, transported into said processing chamber by said transporting means, processed in said processing chamber, and transported out of said processing chamber by said transporting means; and

wherein a time interval assigned for transporting the semiconductor wafers from one of said processing apparatuses to another by said inter-apparatus transporter and assigned for processing in each of said processing apparatuses including time for transporting a semiconductor wafer to be processed into said processing chamber at said interface, time for processing the semiconductor wafer in said processing chamber, and time for transporting the semiconductor wafer out of said processing chamber and sending out at said interface is set to

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N multiplication of a predetermined unit time, with N being a positive integer, that is common to all of said plurality of the processing apparatuses and the inter-apparatus transporter and that is longer than the shortest required time for either processing in each of the processing apparatuses or for transporting by the inter-apparatus transporter but shorter than the longest required time for either processing in each of the processing apparatuses or for transporting by the inter-apparatus transporter.

165. (Previously Presented) A fabricating method according to claim 164, wherein said time interval assigned for processing in each of said processing apparatuses further includes time for waiting prior to transporting the semiconductor wafer to be processed into said processing chamber at said interface.

166. (Previously Presented) A fabricating method according to claim 164, wherein said time interval assigned for processing in each of said processing apparatuses further includes time for waiting prior to sending out the semiconductor wafer at said interface.

167. (Previously Presented) A fabricating method according to claim 165, wherein said time interval assigned for processing in each of said processing apparatuses further includes time for waiting prior to sending out the semiconductor wafer at said interface.

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168. (Previously Presented) A fabricating method comprising the steps of:

processing semiconductor wafers by a plurality of processing apparatuses each including at least one processing chamber and an interface having transporting means for transporting a semiconductor wafer to be processed into said processing chamber and for sending out a processed semiconductor wafer; and

transporting semiconductor wafers from one of the processing apparatuses to another by an inter-apparatus transporter;

wherein, in each of said plurality of processing apparatuses, semiconductor wafers are set at said interface by said inter-apparatus transporter, transported into said processing chamber by said transporting means, processed in said processing chamber, and transported out of said processing chamber by said transporting means; and

wherein a plurality of time intervals assigned to said processing apparatuses each including time for transporting a semiconductor wafer to be processed into said processing chamber at said interface, time for processing the semiconductor wafer in said processing chamber, and time for transporting the semiconductor wafer out of said processing chamber and sending out at said interface are set to N multiplication of a predetermined unit time that is common to all of said plurality of the processing apparatuses with N being a positive integer, and that is longer than the shortest required time for processing the semiconductor wafer in each of the processing chambers but shorter than the longest required time for processing in each of the processing apparatuses; and

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wherein a time interval assigned to transporting the semiconductor wafers from one of said processing apparatuses to another by said inter-apparatus transporter is scheduled by use of one of said time intervals.

169. (Previously Presented) A fabricating method comprising the steps of:

processing semiconductor wafers by a plurality of processing apparatuses each including at least one processing chamber and an interface having transporting means for transporting a semiconductor wafer to be processed into said processing chamber and for sending out a processed semiconductor wafer; and

transporting semiconductor wafers from one of the processing apparatuses to another by an inter-apparatus transporter;

wherein, in each of said plurality of processing apparatuses, semiconductor wafers are set at said interface by said inter-apparatus transporter, transported into said processing chamber by said transporting means, processed in said processing chamber, and transported out of said processing chamber by said transporting means; and

wherein a time interval assigned to each of said processing apparatuses including time for transporting a semiconductor wafer to be processed into said processing chamber at said interface, time for processing the semiconductor wafer in said processing chamber, and time for transporting the semiconductor wafer out of said processing chamber and sending out the semiconductor wafer to said inter-apparatus transporter at said interface is set to N multiplication of a predetermined unit time that is common to all of said plurality of the processing apparatuses, with N being a positive integer, and that is longer than the shortest

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required time for either processing in each of the processing chambers or for transporting by the inter-apparatus transporter but shorter than the longest required time for either processing in each of the processing apparatuses or for transporting by the inter-apparatus transporter;

wherein a time interval between setting of a semiconductor wafer at the interface of one of said processing apparatuses by said inter-apparatus transporter and setting at the interface of another processing apparatus by said inter-apparatus transporter is set to M multiplication of said predetermined unit time, with M being a positive integer.

170. (Currently Amended) A fabricating method comprising the steps of:

processing a lot being constituted of a plurality of semiconductor wafers by a plurality of processing apparatuses each including at least one processing chamber and an interface having transporting means for transporting a semiconductor wafer to be processed into said processing chamber and for sending out a processed semiconductor wafer; and

transporting ~~semiconductor wafers~~ said lot from one of the processing apparatuses to another by an inter-apparatus transporter;

wherein, in each of said plurality of processing apparatuses, semiconductor wafers constituting the lot are set at said interface by said inter-apparatus transporter, transported into said processing chamber by said transporting means, processed in said processing chamber, and transported out of said processing chamber by said transporting means; and

wherein a time interval assigned either for transporting the ~~semiconductor wafers~~ lot from one of said processing apparatuses to another by said inter-apparatus transporter or for processing in each of said processing apparatuses including time for transporting a

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semiconductor wafer to be processed into said processing chamber at said interface, time for processing the semiconductor wafer in said processing chamber, and time for transporting the semiconductor wafer out of said processing chamber and sending out at said interface is set to N multiplication of a predetermined unit time, with N being a positive integer, that is common to all of said plurality of the processing apparatuses ~~and the inter apparatus transporter~~ and that is longer than the shortest required time for processing in each of the processing apparatuses but shorter than the longest required time for either processing in each of the processing apparatuses or for transporting by the inter apparatus transporter.

171. (Previously Presented) A fabricating method according to claim 170, wherein said time interval assigned for processing in each of said processing apparatuses further includes time for waiting prior to transporting the semiconductor wafer to be processed into said processing chamber at said interface.

172. (Previously Presented) A fabricating method according to claim 170, wherein said time interval assigned for processing in each of said processing apparatuses further includes time for waiting prior to sending out the semiconductor wafer at said interface.

173. (Currently Amended) A fabricating method comprising the steps of:
processing semiconductor wafers by a plurality of processing apparatuses each
including at least one processing chamber and an interface having transporting means for

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transporting a semiconductor wafer to be processed into said processing chamber and for sending out a processed semiconductor wafer; and

transporting semiconductor wafers from one of the processing apparatuses to another by an inter-apparatus transporter;

wherein, in each of said plurality of processing apparatuses, semiconductor wafers are set at said interface by said inter-apparatus transporter, transported into said processing chamber by said transporting means, processed in said processing chamber, and transported out of said processing chamber by said transporting means; and

wherein a time interval assigned either for transporting semiconductor wafers from one of said processing apparatuses to another by said inter-apparatus transporter or for processing in each of said processing apparatuses including time for transporting a semiconductor wafer to be processed into said processing chamber at said interface, time for processing the semiconductor wafer in said processing chamber, and time for transporting the semiconductor wafer out of said processing chamber and sending out at said interface is set to N multiplication of a predetermined unit time, with N being a positive integer, that is common to all of said plurality of the processing apparatuses and the inter-apparatus transporter and that is longer than a minute but shorter than the longest required time for either processing in each of the processing apparatuses or for transporting by the inter-apparatus transporter according to claim 171,

wherein said time interval assigned for processing in each of said processing apparatuses further includes time for waiting prior to sending out the semiconductor wafer at said interface.

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174. (Currently Amended) A fabricating method comprising the steps of:

processing semiconductor wafers by a plurality of processing apparatuses each including at least one processing chamber and an interface having transporting means for transporting a semiconductor wafer to be processed into said processing chamber and for sending out a processed semiconductor wafer; and

transporting semiconductor wafers from one of the processing apparatuses to another by an inter-apparatus transporter;

wherein, in each of said plurality of processing apparatuses, semiconductor wafers are set at said interface by said inter-apparatus transporter, transported into said processing chamber by said transporting means, processed in said processing chamber, and transported out of said processing chamber by said transporting means; and

wherein a plurality of time intervals assigned to said processing apparatuses each including time for transporting a semiconductor wafer to be processed into said processing chamber at said interface, time for processing the semiconductor wafer in said processing chamber, and time for transporting the semiconductor wafer out of said processing chamber and sending out at said interface are set to N multiplication of a predetermined unit time that is common to all of said plurality of the processing apparatuses with N being a positive integer, and that is longer than a minute but shorter than the longest required time for processing in each of the processing apparatuses; and

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wherein a time interval assigned to transporting the semiconductor wafers from one of said processing apparatuses to another by said inter-apparatus transporter is scheduled by use of one of said time intervals.

175. (Currently Amended) A fabricating method comprising the steps of:

processing semiconductor wafers by a plurality of processing apparatuses each including at least one processing chamber and an interface having transporting means for transporting a semiconductor wafer to be processed into said processing chamber and for sending out a processed semiconductor wafer; and

transporting semiconductor wafers from one of the processing apparatuses to another by an inter-apparatus transporter;

wherein, in each of said plurality of processing apparatuses, semiconductor wafers are set at said interface by said inter-apparatus transporter, transported into said processing chamber by said transporting means, processed in said processing chamber, and transported out of said processing chamber by said transporting means; and

wherein a time interval assigned to each of said processing apparatuses including time for transporting a semiconductor wafer to be processed into said processing chamber at said interface, time for processing the semiconductor wafer in said processing chamber, and time for transporting the semiconductor wafer out of said processing chamber and sending out the semiconductor wafer to said inter-apparatus transporter at said interface is set to N multiplication of a predetermined unit time that is common to all of said plurality of the processing apparatuses, with N being a positive integer, and that is longer than a minute but

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shorter than the longest required time for either processing in each of the processing apparatuses or for transporting by the inter-apparatus transporter;

wherein a time interval between setting of a semiconductor wafer at the interface of one of said processing apparatuses by said inter-apparatus transporter and setting at the interface of another processing apparatus by said inter-apparatus transporter is set to M multiplication of said predetermined unit time, with M being a positive integer.